

**Amendments to the Claims**

**This listing of claims will replace all prior versions, and listings, of claims in the application:**

**Listing of Claims:**

1. (Currently Amended) A method for phenotyping a mammalian subject as a poor or extensive metabolizer with respect to CYP2C19 which comprises:
  - a) administering a dose of racemic mephenytoin to said subject;
  - b) waiting for a period of time;
  - c) obtaining a single sample of urine, plasma or saliva from said subject;
  - d) measuring the concentrations of S and R mephenytoin enantiomers.
2. (Original) A method of claim 1 wherein said sample is a saliva sample.
3. (Original) A method of claim 1 wherein said is a plasma sample.
4. (Original) A method of claim 1 wherein said sample is a urine sample.
5. (Original) A method of claim 2 wherein said period of time is two hours.
6. (Original) A method of claim 1 wherein said dose is 100 mg of racemic mephenytoin.
7. (Original) A method of claim 3 wherein said period of time is anytime within 8 hours.